



भारत का राजपत्र

The Gazette of India

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PUBLISHED BY AUTHORITY

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No. 8] NEW DELHI, SATURDAY, FEBRUARY 24, 1990 (PHALGUNA 5, 1911)

इस भाग में भिन्न पृष्ठ संलग्न वी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 24th February 1990

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Telegraphic address "PATENTOFIS".

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5th, 6th and 7th Floor,
234/4, Acharya Jagadish Bose Road,
Calcutta-700 020

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees:—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

एकस्थ तथा अभिकल्प

कलकत्ता, दिनांक 24 फरवरी 1990

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है, तथा बम्बई, दिल्ली एवं मद्रास में इसके शास्त्र कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शास्त्र,

टोडी हस्टेट,

तीसरा तल, सोअर परले (परिवास),

बम्बई-400 013.

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र

एवं संघ शासित क्षेत्र गोआ, बम्बन तथा विष्णु एवं वाराण

और नगर हवेली।

तार पता—“पेटोफिस”।

पेटेंट कार्यालय शास्त्र,

एक सं. 401 से 405, तीसरा तल,

नगरपालिका बाजार भवन,

सरस्वती भार्ग, करोल बाग,

बम्बई-110 005.

हरिहाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,

पंजाब, राजस्थान तथा उत्तर प्रदेश

राज्य क्षेत्रों एवं संघ शासित क्षेत्र

चंडीगढ़ तथा दिल्ली।

तार पता—“पेटोफिस”।

पेटेंट कार्यालय शास्त्र,

61, बालाजाह रोड़,

मद्रास-600 002.

बंग्लूरु प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पार्श्वद्वारी, सप्तद्वीप, मिनिकाय तथा एमिनिदिवि द्वीप।

तार पता—“पेटोफिस”।

पेटेंट कार्यालय (प्रधान कार्यालय),

निजाम पैलेस, द्वितीय बहुतलीय कार्यालय भवन,

5, 6 तथा 7वां तल,

234/4, आचार्य जगदीश बोस रोड़,

कलकत्ता-700 020.

भारत का अवशेष क्षेत्र।

तार पता—“पेटेंट्स”।

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के क्षेत्र उपयुक्त कार्यालय अवस्थित हैं; उस स्थान के अनुसूचित वैक से नियन्त्रक को भुगतान योग्य वैक छाप्ट अथवा उके द्वारा की जा सकती है।

सूल्क :—सूल्कों की अद्यायी या तो नक्श की जायेगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य उनावेश अथवा डाक आवेदन या उहां उपयुक्त कार्यालय अवस्थित है; उस स्थान के अनुसूचित वैक से नियन्त्रक को भुगतान योग्य वैक छाप्ट अथवा उके द्वारा की जा सकती है।

APPLICATIONS FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act, 1970.

The 17th January, 1990

47/Cal/1990. Witton Chemical Company Limited. Anti-microbial agent.

The 18th January, 1990

48/Cal/1990. Mezhotraslevoi Nauchno-Tekhnichesky Komplex "Mikrokhirurgia Glaza" USSR. Device for surgical treatment of ametropia.

The 19th January, 1990

49/Cal/1990. Georg Fischer Ag. Ceramic filter for filtration of molten metals.

50/Cal/1990. Du Pont Canada Inc. Detucker for vertical form and fill machine.
(Convention dated February 02, 1989) (No. 89-02320) (U.K.).

51/Cal/1990. Norman Tonkin. Container Crane.
(Convention dated January 20, 1989) (No. PJ-2361) (Australia).

The 22nd January, 1990

52/Cal/1990. The University of Melbourne. Electronic transducer.

(Convention dated January 23, 1989) (No. PJ-2378) (Australia).

53/Cal/1990. Westinghouse Electric Corporation. Improvements in or relating to rotary combustor wall and method of forming same.

54/Cal/1990. Westinghouse Electric Corporation. Improvements in or relating to cooled turbine vane.

55/Cal/1990. Karagandinsky Politekhnichesky Institut, USSR. Air-driven skip hoist.

56/Cal/1990. E.I. Du Pont De Nemours and Company. Blends of Ethylene Vinyl Alcohol Copolymer and Amorphous polyimide, and Multilayer Containers made therefrom.

57/Cal/1990. Hoechst A.G., A process for preparing a water-soluble triphendioxazine compound.
(Divisional dated 8th December, 1986).

58/Cal/1990. Emory University. Method of preparation of a Vaccine.
(Divisional dated 23rd August, 1987).

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-110005

The 1st January, 1990

- 1/Del/90. UOP, "Middle distillate hydrocracking catalyst employing low acidity Y zeolite".
 2/Del/90. W.R. Grace & Co., "Process for the removal of trace contaminants from glyceride oils".
 [Divisional date 17th September, 1987]

- 3/Del/90. Yash Pal Gupta, "Process for the preparation of herbicidally active N, N-dimethyl N'-arylureas".
 4/Del/90. Steel Authority of India Ltd., "Composite refractory sheath for continuous steelbath temperature measure device".

The 2nd January, 1990

- 5/Del/90. John P. Edgar, "Incandescent mantles".
 6/Del/90. Lucas Industries Public Ltd. Co., "Improvements in fluid-pressure operated boosters for vehicle braking systems".
 (Convention date 18th January 89, 13th April, 89 & 9th August, 1989) (U.K.).
 7/Del/90. Amoco Corporation, "Preparation of polyethylene terephthalate".

The 3rd January, 1990

- 8/Del/90. Stein Industrie, "Method and device for protecting against erosion and/or corrosion steam pipes from the high-pressure stage of a turbine".
 9/Del/90. Stein Industrie, "A device enabling a mass cantilevered from a vertically moveable element to rest against a fixed framework".
 10/Del/90. Moskovsky Geologorazvedochny Institut Imeni Sergo Ordzhonikidze, "Device for hydraulic conveyance of loose materials".

The 4th January, 1990

- 11/Del/90. The Procter and Gamble Co., "Liquid detergent composition containing enzyme and enzyme stabilization system".
 (Convention date 10th January, 1989) (U.K.).

- 12/Del/90. The Procter and Gamble Co., "Liquid detergent composition containing enzyme and enzyme stabilization system".
 (Convention date 10th January, 1989) (U.K.).

- 13/Del/90. The Procter and Gamble Co., "Container having improved drain means".

- 14/Del/90. The Procter and Gamble Co., "Aerated bar soap composition containing free fatty acid".

- 15/Del/90. Raman Mehta, "Manufacturing of Mangaferin (Alpisarinum)".

- 16/Del/90. Henri Devaud, "A lawn mower".

- 17/Del/90. Gec Alsthom S.A., "High or medium tension circuit breaker".

- 18/Del/90. Lipha, Lyonnaise Industrielle Pharmaceutique, "Process for the preparation of piperidines and medications containing them".

- 19/Del/90. UOP Inc, "A process for isomerizing isomerizable hydrocarbons".
 [Divisional date 24th April, 1987].

The 5th January 1990

- 20/Del/90. Carrier Corporation, "Horizontal Scroll Compressor".
 21/Del/90. Virendra Singh, "Asthma monitor".
 22/Del/90. Virendra Singh, "Segregation chamber of spirometer".
 23/Del/90. Steel Authority of India Ltd., "A method of producing pellets of naturally occurring iron ore fines having improved properties".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH, TODI ESTATES, 3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL(W), BOMBAY-400 013

The 22nd December, 1989

- 353/Bom/1989. Hoechst India Ltd. A process for the production of a new glycopeptide antibiotic Balhimycin from an Actinomycete species Y-86-21022 (Culture Number, Hoechst India Limited, Y-86, 21022) and its mutants and variants and preparation of pharmaceutically useful salts thereof.

The 27th December, 1989

- 354/Bom/1989. Hindustan Lever Ltd. Bleaching composition.
 28th December, 1988. Great Britain.

- 355/Bom/1989. Hindustan Lever Ltd. Bleaching composition.

The 28th December, 1989

- 356/Bom/1989. Dr. Shantilal Keshavlal Sanghani. A device to convert forcible water flow energy into electric energy.

- 357/Bom/1989. Pathak Ravindra Venkatrao. Portable canal template.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 8th January, 1990

- 20/Mas/90. MRF Ltd., A Novel Chunking Tester for Rubber, Plastics and Like Materials.
 21/Mas/90. A Ahstrom Corporation. System and method for reheat steam temperature control in circulating fluidized bed boilers.

The 9th January, 1990

- 22/Mas/90. Maschinenfabrik Rieter AG. A method of and apparatus for block C hanging in a ring spinning machine.
 23/Mas/90. Maschinenfabrik Rieter AG. Textile machine, in particular a spinning machine.
 24/Mas/90. The Dow Chemical Company. Thermoplastic Polyurethanes.
 25/Mas/90. Nintendo Co. Ltd. System for preventing the use of an unauthorised external memory.
 26/Mas/90. Maschinenfabrik Rieter AG. Bale opener with a safety device.

The 11th January, 1990

27/Mas/90. IRECO Incorporated. Emulsion explosives containing a polymeric emulsifier.

28/Mas/90. Dranez Anstalt. Chest enclosure for ventilators (January 16, 1989, United Kingdom).

29/Mas/89. Societe Des Produits Nestle S A. A process for the preparation of a seasoning.

30/Mas/90. Kysor Industrial Corporation. Viscous fluid shear clutches and control valves therefor. (January 13, 1989, United Kingdom).

31/Mas/90. Plessey Overseas Limited. Notch filters for use in an interpolator or decimator filter structure. (August 28, 1985, U. K.) (Divisional to Patent Application No. 560/Mas/86).

The 12th January 1990

32/Mas/90. Indian Institute of Technology., Direct-in-Diallers for decadic-pulsing telephone system.

33/Mas/90. Institut Francias Du Petrole. Process for regenerating a catalyst for the production of aromatic hydrocarbon or for reforming.

34/Mas/90. Caterpillar Inc. Engine piston assembly and forged piston member therefor having a cooling recess. (August 1, 1989, Canada).

35/Mas/90. Akebono brake industry co., Ltd. Hydraulic cylinder unit capable of being set in three positions.

36/Mas/90. Maschinenfabrik Rieter AG. Transport Device.

OPPOSITION PROCEEDINGS

The opposition entered by Steelsworth Private Limited to the grant of a patent on application No. 164840 made by Trade & Industry Private Limited as notified in the Gazette of India, Part III, Section 2 dated 30th December, 1989 has been treated as dismissed. The other opposition filed by Vikram Forgings & Allied Industries Private Limited is still pending.

PATENTS SEALED

154685 159907 163682 164066 164540 164772 164773
 164795 164797 164798 164851 164852 164854 164855
 164856 164857 164871 164872 164883.

CAL = 8.

DEL = 3.

MAS = 4.

BOM = 4.

AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that "NEYRPIC", a French Societe Anonyme, 75 Rue General Margin, FR-38000 Grenoble, France, have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 165745 for "Channel for feeding water to a vertical-axis Kaplan water turbine".

The application for amendment and the proposed amendments can be inspected free of charge at Patent Office, 234/4, Acharya Jagadish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

AMENDMENT PROCEEDINGS UNDER SECTION 57 OF THE PATENTS ACT, 1970

Notice is hereby given that Dr. Warner Freyberg Chemische Fabrik Delitia Nachf, a German Company, have made an application under Section 57 of the Patents Act, 1970 for amendment of the application, Specification and drawings of their Patent Application No. 163425.

The amendments are by way of correction. The application for amendment and proposed amendments can be inspected free of charge at the Patent Office, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of opposition on prescribed form-30 within 3 months from the date of Notification at the Patent Office, Madras. If the written statement of opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said notice.

RENEWAL FEES PAID

145517	146387	146500	146516	146778	147020	147159
147181	147182	147193	147219	147228	147292	147546
147547	147650	147667	147808	148056	148962	149256
149321	149502	149575	150159	150418	150508	150744
150911	151130	151159	151362	151380	151456	151842
152194	152617	152644	152729	152941	153034	153047
153103	153110	153225	153236	153240	153244	153263
153395	153396	153401	153466	153556	153741	153924
153927	154568	154645	154686	154728	154729	154730
154762	154845	154915	154925	155008	155207	155228
155392	155669	155686	155687	155851	155927	156518
156692	156852	156890	156891	157052	157071	157106
157109	157178	157220	157250	157255	157260	157334
157369	157370	157375	157403	157441	157460	157464
157484	157618	157723	157875	157898	157899	157921
157929	157930	157960	157973	158021	158193	158240
158248	158282	158320	158375	158440	158460	158608
158669	158674	158857	158858	158928	158943	158963
158982	158986	158999	159069	159111	159113	159114
159117	159148	159212	159265	159274	159276	159416
159518	159671	159704	159715	159752	159877	159929
159946	160077	160095	160096	160366	160443	160529
160712	160828	160911	160978	161005	161072	161123
161236	161238	161247	161250	161283	161285	161420
161502	161503	161619	161630	161708	161714	161726
161755	161784	161807	161808	161854	161857	161903
161904	161968	162082	162083	162093	162155	162291
162293	162342	162366	162375	162531	162597	162840
162932	162973	162994	163015	163051	163112	163150
163191	163227	163371	163382	163384	163386	163390
163393	163395	163399	163421	163423	163502	163589
163630	163702	163844	164127	164129	164226	164290
164377	164378	164397	164400	164407	164408	164410
164614	164620	164662	164669	164698	164724	164761.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classifications."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Rquisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

स्वीकृत सम्पूर्ण विनिदेश

एतद्वाया यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्माण की तिथि से 4 महीने या अधिक ऐसी अवधि जो उक्त 4 महीने की अवधि को समाप्ति के पूर्व पेटेंट नियम 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो के भीतर कभी भी निगन्त्रक, एकस्व कांग्रेस विरोध को सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी तिविहित वक्तव्य; उक्त सूचना के साथ अधिक पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही काइल किए जाने चाहिए।

"प्रत्येक विनिदेश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर्राष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिदेशों की सीमित संख्या में मूल्यांकनों, भारत सरकार बुक डिपो, 8 किरण शंकर राय रोड, कलकत्ता में विक्रय हुत् यथा सम्य उपलब्ध होंगी। प्रत्येक विनिदेश का मूल्य 2/- रु. है। (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मूल्यांक विनिदेशों की आपूर्ति हुत् भाग-पत्र के साथ निम्नलिखित सूची में नथा प्रदर्शित विनिदेशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (जिन आरेखों) की फोटो प्रतिरूप यदि कोई हों; के साथ विनिदेशों की टॉकित अधिक फोटो प्रतिरूपों की आपूर्ति पेटेंट कार्यालय, कलकत्ता, द्वारा विहित लिप्यान्तरण प्रभार उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अद्वायगी पर की जा सकती है। विनिदेश को पृष्ठ सम्पूर्ण के साथ प्रत्येक स्वीकृत विनिदेश के सामने नीचे वर्णित चिन्ह आरेख कारणों को छोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण इभार का प्रतिक्रमन किया जा सकता है।

Ind. Cl. : 19 B., C. 27L.

165991

Int. Cl. : E 21 D 21/00.

"DEFORMED BAR FOR PARTICULAR USE AS A ROCK BOLT".

Applicant : TITAN MINING AND ENGINEERING PTY. LTD. A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF QUEENSLAND, OF CNR. WOODSTOCK STREET AND INDUSTRIAL HIGHWAY, MAYFIELD, NEW SOUTH WALES 2304, AUSTRALIA.

Inventor : RONALD JAMES SHAW.

Application for Patent No. 73/Del/86 Filed on 24 January, 1986.

Convention date January 25, 1985/PG 9036 (Australia).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

a deformed for particular use as a rock bolt, said deformed bar being of substantially circular cross-section having a rolled deformation located symmetrically thereon throughout the entire length thereof, said deformation comprising surface bar portions raised above a minor diameter (3) of said bar; at least one end portion (4) of said bar having a threaded portion solely in said raised surface bar portions.



Compl. specn. 9 pages.

Drgs. 3 sheets

Ind. Cl. : 134 A. 50 D.

165992

Int. Cl. : B 60 H 3/00, F 24 F 5/00.

Title : "IMPROVED SWASH PLATE COMPRESSOR INCORPORATING A DEVICE FOR DETECTING ROTATIONAL SPEED".

Applicant : SANDEN CORPORATION, A JAPANESE COMPANY, OF 20 KOTOBUKI-CHO, ISESAKI-SHI, GUNMA 372, JAPAN.

Inventors : MASAKATSU SAKAKI AND TAMOTSU DAIKOHARA.

Application for Patent No. 85/Del/86 filed on 29th January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

An improved swash plate compressor incorporating a device for detecting rotational speed thereof which comprises :

a rotary shaft (12) rotated by drive means through the medium of a clutch,

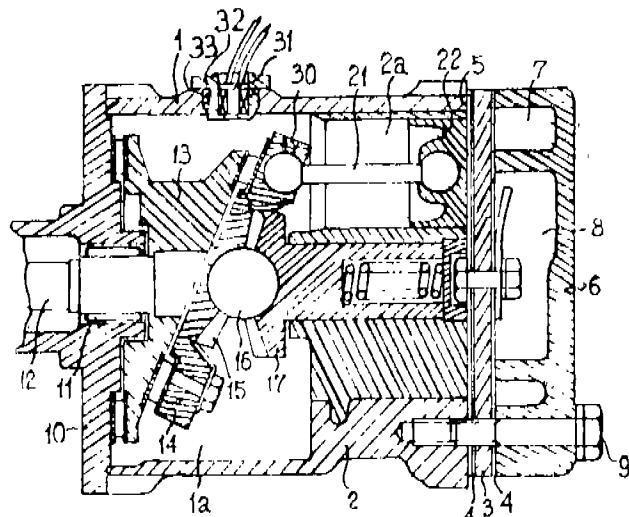
a housing (11) for supporting said rotary shaft (12),

a wedge-shaped rotor (13) fixedly mounted on said rotary shaft (12) to rotate therewith,

a swash plate (14) also mounted on said rotary shaft adjacent the inclined surface of said rotor, said swash plate (14) permitting rotation of the rotor but being restrained from rotating therewith and being moveable along a path in a forward and backward direction in response to rotation of said rotor (13),

a magnetic member (30) disposed on the outer circumference of said swash plate (14), and

an electromagnetic sensor (31) provided on said housing opposite the path of movement of said magnetic member (30), said sensor generating pulse signals in response to variations in the magnetic flux density which take place each time said magnetic member (30) passes before said sensor (31) during the movement of said swash plate (14).



Compl. specn. 11 pages.

Fig. 1 sheet

Ind. CLASS : 98 E.

165993

Int. Cl. : H 05 B 5/00,

C 21 B 1/42 & 9/52.

INDUCTION HEATING APPARATUS FOR HEATING ELONGATE METAL ARTICLES.

Applicant : N. V. BEKAERT S. A., A PUBLIC COMPANY ORGANISED UNDER THE LAWS OF BELGIUM, OF BAKAERTSERAAT 2, B-8550 ZWEVEGEM, BELGIUM.

Inventors : MICHEL NEIRYNCK & GODFRIED VAN-NESTE.

Application for Patent No. 141/Del/86 filed on 20th Feb. 1985.

Convention date March 6, 1985/8505811/(U.K.).

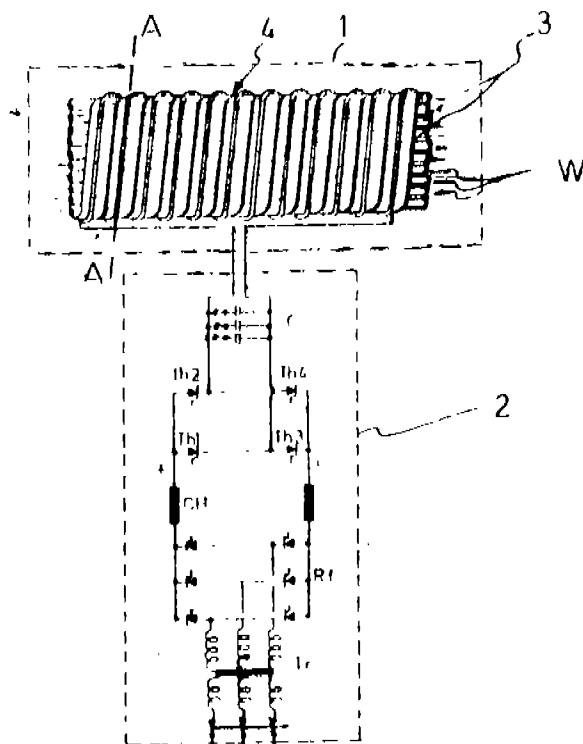
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

An induction heating apparatus for heating elongate metal articles (W), the apparatus comprising :

a coil (1) connected to an electrical current source; said coil (1) having an elongate inductor channel (3, 3...) extending therethrough in the longitudinal direction of the coil (1) for permitting said elongate metal articles (W) to pass longitudinally therein to be heated;

characterised by said coil (1) being in plurality of connected adjacent coil lengths (1) with at least two adjacent said coil lengths having opposite turns in its windings (4) with respect to each other and the coil lengths (1) being connected to the current source so that the direction of current passing through said coil (1) is reversed at regular intervals in the path of travel of said metal articles (W) through said coil channel (3, 3...) whereby voltage build-up reduced or suppressed along the metal articles (W).



Compl. specn. 33 pages.

Drgs. 5 sheets

Ind. Cl. : 176 I XLV(4).

165994

Int. Cl. : F 22 B 1/30.

"ELECTRODE BOILER OF THE WATER JET ELECTRODE TYPE".

Applicant : VAPOR CORPORATION, A DELAWARE CORPORATION, OF 6420, W. HOFARD STREET, CHICAGO, ILLINOIS 60648, UNITED STATES OF AMERICA.

Inventor : CURTIS J. DIEDRICK.

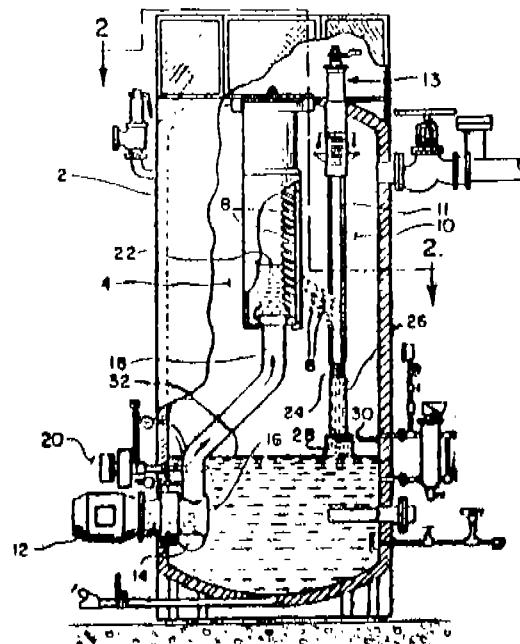
Application for Patent No. 153/Del/86 filed on 24th February, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims

An electrode boiler of the water jet electrode type, having a tank (2) for containing pressurized steam and circulated water, a cylindrical water jet header (4) mounted in an upper portion of the tank (2) above level of circulated water in said tank, said header (4) having an inner chamber and an outer surface (37), at least one vertically disposed, electrically insulated electrode (10) in said tank (2) intermediate said outer surface (37) of said header (4) and tank wall, said outer surface (37) being spaced radially (48) and vertically from an electrode jet contact surface (11) provided by

a flow channel (17) on said at least one electrode (10), a plurality of vertically aligned tubular jet forming nozzles (8) of predetermined length in said header (4), said nozzles (8) having a first and angularly intersecting said outer surface (37) of said header (4) and a second open end internally of said header (4), said nozzles (8) having jet discharge orifices at said nozzle (8) and header outer surface (37) intersections, the ratio of said radial spacing (48) of said header outer surface (37) from said electrode jet contact surface (11) to length of said nozzle being less than 1 : 88.



Compl. specn. 15 pages.

Draws. 3 sheets

Ind. Cl. : 40 H.

165995

Int. Cl. : B 01 D 15/00.

"AN ADIABATIC PRESSURE SWING ADSORPTION PROCESS".

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA; WITH OFFICES AT : OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT, 06817, UNITED STATES OF AMERICA.

Inventor(s) : ROBERT GRAY WARNER & HOMER FAY.

Application for Patent No. 164/Del/86 filed on 25th January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

9 Claims

An adiabatic pressure swing adsorption process for the selective adsorption of more readily adsorbable component of a feed gas mixture such as air, carbon monoxide and nitrogen, carbon dioxide and methane, methane and nitrogen, ethane and ethylene and the like and the recovery of said component as high purity product in an adsorption system having at least two adsorbent beds, each of which undergoes, on a cyclic basis, a processing sequence comprising :

(a) introducing into the discharge end of one of said adsorbent beds an enriched less readily adsorbable

co-product effluent gas component of the kind such as herein described withdrawn from the discharge end of the other bed, before and/or simultaneously with a feed gas mixture, thereby increasing the pressure of the bed from a lower subatmospheric desorption pressure of at least $\frac{1}{2}$ psi to an intermediate adsorption pressure;

- (b) passing said feed gas mixture to the feed end of said bed, with or without the passage of said co-product effluent to the discharge end thereof, for increasing the pressure thereof from said intermediate pressure level to a higher adsorption pressure upto 60 psi;
- (c) introducing more readily adsorbable component copourge gas to the feed end of the bed at said upper adsorption pressure to displace enriched less readily adsorbable component effluent gas from the discharge end of the bed being pressurized from said desorption pressure level, the concentration of said more readily adsorbable component present increasing during said copourge step which is continued until the concentration of the more readily adsorbable component reaches a predetermined level in said co-product effluent stream;
- (d) introducing additional more readily adsorbable copourge gas to the feed end of the bed at said upper adsorption pressure after the more readily adsorbable component concentration reaches said predetermined level in said effluent gas stream, with the additional displaced effluent gas containing more than said predetermined level of more readily adsorbable component concentration therein being recycled to the feed end of a bed in the system at a pressure of from said intermediate pressure level to said upper adsorption pressure;
- (e) countercurrently depressurizing said bed in any known manner from the upper adsorption pressure to a lower adsorption pressure with discharge of high purity more readily adsorbable component gas from the feed end of the bed;
- (f) further countercurrently depressurizing said bed in any known manner from said lower adsorption pressure to still lower desorption pressure with discharge of desorbed, high purity more readily adsorbable component product gas and/or copourge gas from the feed end of the bed, and
- (g) repeating steps (a) - (f) on a cyclic basis with additional feed gas mixture being passed to the bed being repressurized during step (b) or steps (a) and (b), whereby more readily adsorbable component product gas can be readily obtained at high purity and recovery levels, and said enriched less readily adsorbable component can also be obtained at relatively high recovery levels.

Compl. specn. 28 pages.

Ind. CLASS : 143 D₅.

165996

Int. Cl. : B65 B 5/02, 41/00
B 65 H 16/00.

APPARATUS FOR FOLDING AND FEEDING CARD BOARDS INTO A MACHINE FOR PACKAGING ARTICLES.

Applicant : AZIONARIA COSTRUZIONI MACCHINE AUTOMATICHE, A. C. M. A., S.p.A., OF VIA CRISTOFORO COLOMBO 1, 40131 BOLOGNA, ITALY, AN ITALIAN COMPANY.

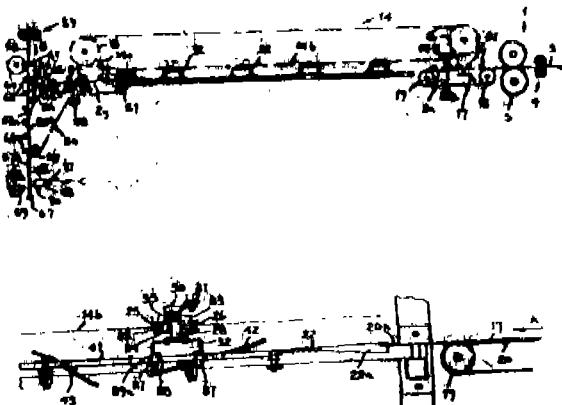
Inventors : FRANCO AIUOLA & LUCIANO NANINI.

Application for Patent No. 213/Del/86 filed on 7th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110 005.

6 Claims

Apparatus for folding and feeding card boards into a machine for packaging articles such as soap and for forming from said card boards (2) box-like package, such apparatus comprising a first transfer means (14) provided for receiving the card boards from supplying means (3) and transferring them to a second transfer means (50), said first transfer means comprising two rod-like members (44, 45) supporting the central zone of said card boards and a plurality of uniformly spaced rotatable supports on each of which a bridge member (32) having two teeth (37) is mounted, said teeth engaging said opposite recesses (11) and being controlled to orientate said card boards with said transverse creases (a, b) parallel to the advancing direction of said first transfer means (14), folding means (42, 43, 46, 47, 55, 56) being further provided along said first transfer means and cooperating with the latter and with said bridge members (32) to fold about the transverse creases (a, b) said end zone (8, 9) with respect to said lateral zones (7) and said lateral zones with respect to said central zone (6) and to fold back said end and lateral zones to return to the coplanar condition with said central zone.



Compl. specn. 18 pages.

Drgs. 4 sheets

Ind. CLASS : 53 E.

165997

Int. Cl. : B 62 K 3/02, 19/02.

Title : "BICYCLE FRAME AND BICYCLE".

Applicant & Inventor : FRANCIS GEORGE KIRK, A BRITISH SUBJECT, OF 12 KENWORTHY ROAD, BRAINTREE, ESSEX CM7 7JJ, ENGLAND.

Application for Patent No. 235/Del/86 filed on 13th March, 1986.

Convention date March 20, 1985/8507166 & August 14, 1985/8520379 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

14 Claims

A bicycle frame including a saddle (3) stem and a head (4) interconnected by upper (1) and lower (2) bars, in which at least the saddle (3) stem and the upper (1) and lower (2) bars are integrally cast in a lightweight metal or alloy and in which at least one element of the frame comprises a closed hollow section composed of a first open section and a co-operating second section, said second section fitting securely to said open section to close it to form said closed hollow section.

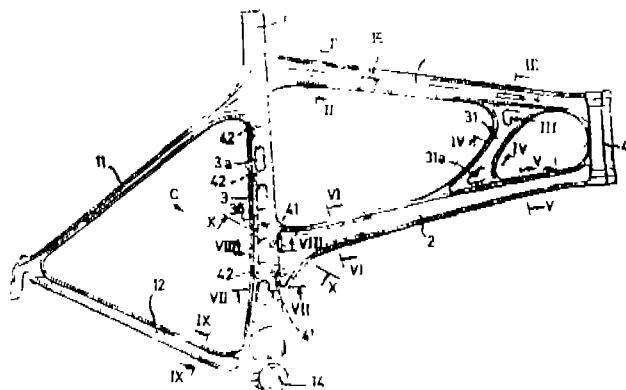


Fig. 1

Compl. specn. 11 pages.

Drgs. 2 sheets

Int. Cl. : A 61 N 1/00.

165998

Title : THERAPEUTIC HEATING APPARATUS FOR USE IN TREATING PORTIONS OF THE HUMAN BODY.

Applicant & Inventor : JEI CHUNG CHOI, A KOREAN CITIZEN OF 491, SEOCHO-DONG, KANGNAM-KU, SEOUL, SOUTH KOREA.

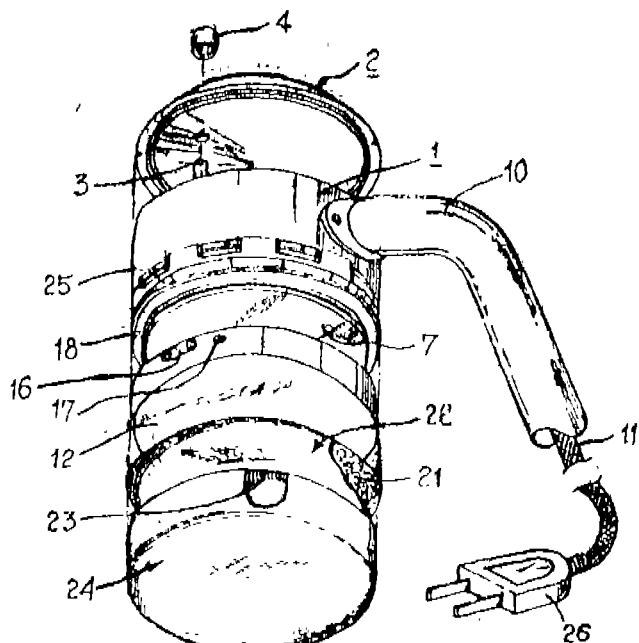
Application for Patent No. 255/Del/86 filed on 19th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110 005.

10 Claims

A therapeutic heating apparatus for use in treating portions of the human body comprising :

- a base member;
- a heater connected to the base member;
- a heat conducting plate connected to the heater;
- a cotton pad connected to said heat conducting plate containing a medicinal ingredient absorbed therein; and
- a cotton cover covering the cotton pad and the heat conducting plate whereby upon the heating of the heater, the medicinal ingredients are evaporated to penetrate any desired portion of the body.



Compl. specn. 9 pages.

Drgs. 2 sheets

Ind. CLASS : 126 C D.

165999

8 Claims

Int. Cl.⁴ : G 01 N 3/40 (G).

Title : "AN INSTRUMENT FOR MEASURING THE HARDNESS OF A BONDED ABRASIVE".

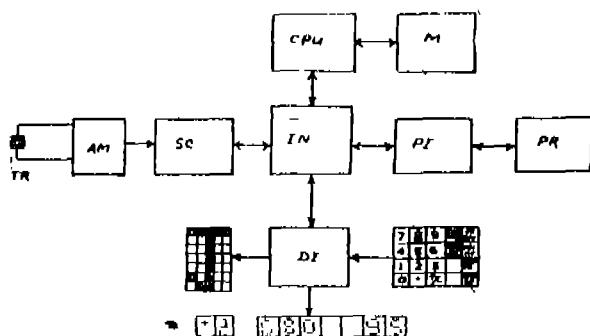
Applicant : NATIONAL RESEARCH DEVELOPMENT CORPORATION OF INDIA, (A GOVT. OF INDIA ENTERPRISE), 20-22 ZAMROODPUR COMMUNITY CENTRE, KAILASH COLONY EXTENSION, NEW DELHI-110048.

Inventor(s) : PAVAN NAGPAL

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110 005.

7 Claims

An instrument for measuring the hardness of a bonded abrasive comprising an audio frequency transducer for converting the natural frequency of the abrasive into electric analogue signals, an amplifier for amplifying said signals connected to said transducer, a signal conditioning circuit for converting the analogue signals into pulse signals connected to said amplifier, an interface controller circuit for sampling said signals with reference to a standard reference signal connected to said interface controller circuit, a central processing unit connected to said interface controller, a central for controlling and processing said interface controller, a memory circuit being connected to said central processing unit and a display being provided with said interface controller for indicating the hardness of said abrasive.



* Compl. specn. 9 pages.

Drgs. 2 sheets

Ind. CLASS : 206 E.

166000

Int. Cl.⁴ : G 05 F 1/00.

Title : "STABILIZED MICROWAVE AMPLIFIER SYSTEM".

Applicant : VARIAN ASSOCIATES, INC., 611, HANSEN WAY, PALO ALTO, CALIFORNIA, 94303, U.S.A. A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE.

Inventor(s) : LARRY EARL SIEGEL, JOHN MILAN PAVKOVICH & GEORGE EDWARD JAHN.

Application for Patent No. 1073/Del/86 filed on 8th December, 1986.

Divisional to application No. 217/Del/84 filed on 6th March, 1984.

Ante dated to 8th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

2-477 GI/89

A stabilized microwave power amplifier system for use with a regulated voltage supply furnishing a regulated voltage, said system comprising :

a klystron amplifier (28);

Solid-state preamplifier means connected to said klystron amplifier for driving it, said preamplifier having a variable gain as a function of temperature;

Means connected to output terminal of the klystron amplifier for periodically sampling the actual microwave output power from klystron amplifier;

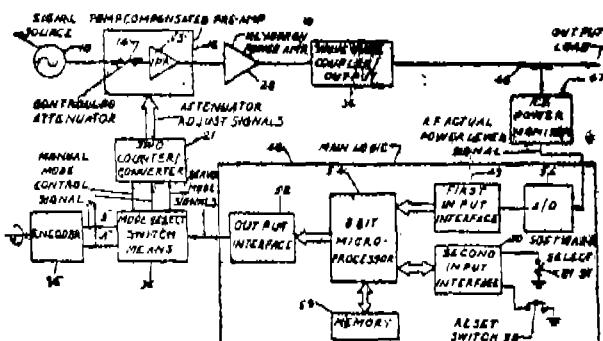
Analog/digital conversion means (21) connected to said sampling means for converting said periodic sample to first digital signals representing said actual output power;

Digital encoder means (35) connected to Analog/digital conversion means for providing second digital signals representative of a desired power output level, said means including an operator-controlled indicator for selecting said desired output level;

Solid-state digital attenuator means connected to the preamplifier means for adjusting the power output of said preamplifier means upwardly or downwardly in accordance with control signals;

Solid-state control signal generator means having a microprocessor (54) for comparing said first and second digital reference signals, and for sensing ambient temperature, said means furnishing said control signals to said attenuator means to control attenuation of said power output as an inverse function of temperature and to increase or decrease attenuation in accordance with whether said first digital reference signal is less than or greater than said second digital reference signal;

whereby the magnitude of said actual output power is stabilized at said operator-preselected desired power output level.



Compl. specn. 16 pages.

Drgs. 2 sheets

Ind. CLASS : 206 E.

166001

Int. Cl.⁴ : H 01 L 27/00.

Title : A GATE ARRAY CHIP.

Applicant : HUGHES AIRCRAFT COMPANY, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 7200 HUGHES TERRACE, P. O. BOX 45066, LOS ANGELES, CALIFORNIA 90045-0066, FORMALLY HAVING A PRINCIPAL PLACE OF BUSINESS AT 200 NORTH SEPULVEDA BOULEVARD, EL SEGUNDO, CALIFORNIA 90245, UNITED STATES OF AMERICA.

Inventors : JOSEPH LEROY ANGLETON & JEFFERY YNN GUTGSELL.

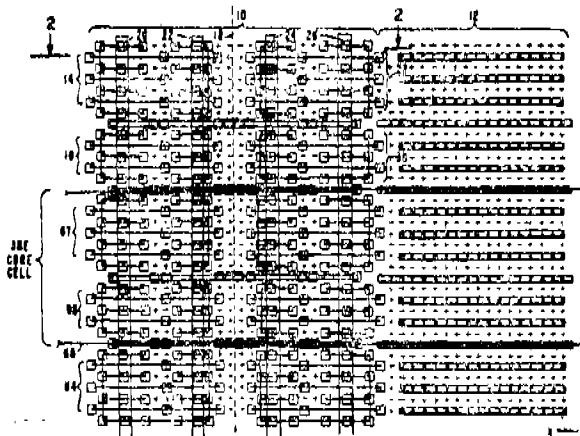
Application for Patent No. 455/Del/85 filed on 7th June, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

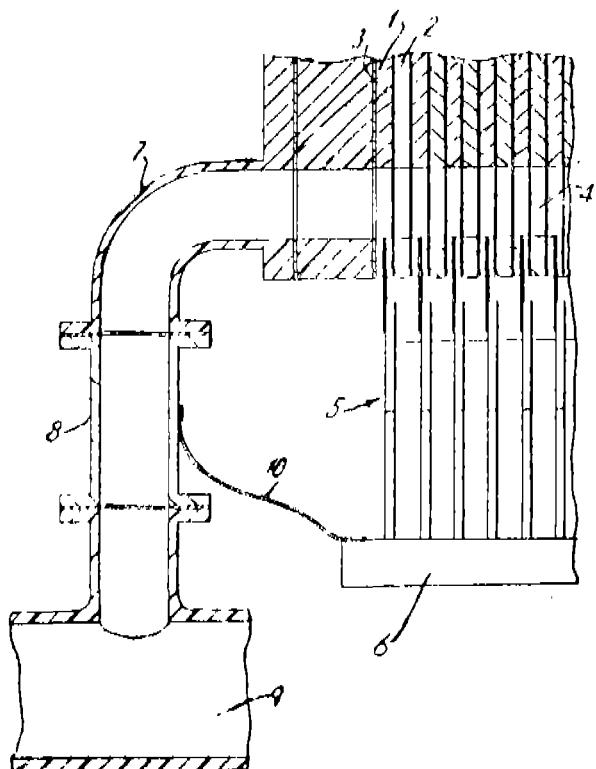
A gate array chip having an improved gate array, said gate array comprising :

a plurality of core cells (14, 16; 28,30), each core cell comprising at least a first and second semiconductor device (20, 22; 24, 26), said plurality of core cells disposed within said chip in at least two rows in a first direction, said core cells in each row having an internal configuration comprised of said first and second semi-conductor devices, one said row (20, 22) having said internal configuration in a mirror symmetrical disposition (18) within said chip with respect to said adjacent row of core cells (24, 26), said first direction thus defining a plane of mirror symmetry with respect to said adjacent rows of core cells, whereby implementation of complex logic function within said gate array is substantially facilitated.



Int. Cl.⁴ : H 01 H 83/00.

166005



Compl. specn. 18 pages.

Drg. 1 sheet

Int. Cl.⁴ : H 01 H 73/00.

166004

Title : A CIRCUIT BREAKER.

Applicant : PORTEX INSTRUMENTATION & CONTROLS, A PROPRIETORSHIP FIRM WHOSE PROPRIETOR IS LOCHAN MOHAN, OF 181/22, INDUSTRIAL AREA, CHANDIGARH-160002, INDIA, AN INDIAN NATIONAL.

Inventor : LOCHAN MOHAN.

Application for Patent No. 23/Del/86 filed on 7th January, 1986.

Complete Specification left on 7th January, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A circuit breaker (A) comprising a thermal insulated housing (B) having switching member disposed therein, said switching member having a bimetallic (F) strip or strips with a moveable contact arranged to coat with a fixed contact, a heating element in series with said bimetal strip (F), said heating element (N) being disposed within said insulated housing and provided in a spaced relationship to said bimetal strip or strips, said heating (N) element supported by the walls of said insulated housing means for adjusting the strip temperature of said switching member and means for resetting the switching member secured to the base of said housing.

Provnl. Specn. 5 pages.

Compl. specn. 13 pages.

Drg. 1 sheet

Title : "INTERRUPTER/ISOLATOR."

Applicant : ASSOCIATED ELECTRICAL INDUSTRIES LIMITED, A BRITISH COMPANY, OF 1 STANPOPE GATE, LONDON W1A 1EH, ENGLAND.

Inventor(s) : GEORGE ALFRED HODKIN.

Application for Patent No. 52/Del/86 filed on 17th January, 1986.

Convention date January 28, 1985/8502036/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-5.

4 Claims

An interrupter/isolator comprising :

a vacuum switch;

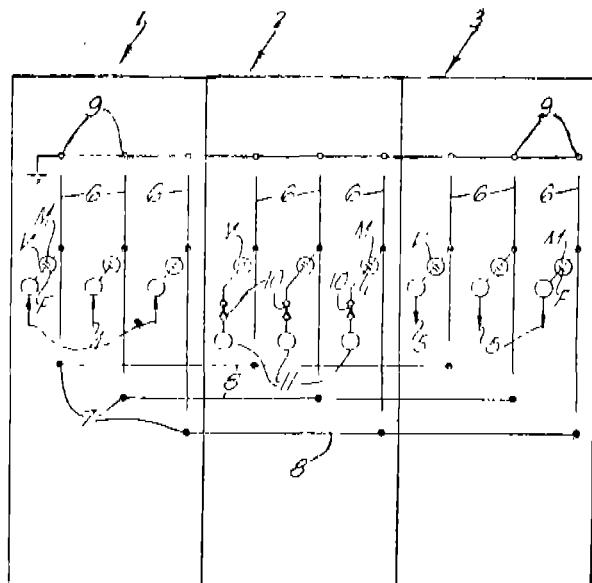
a support for said vacuum (V) switch;

a conducting member (6) slidably mounted on said support and connected to one contact of the said switch;

a bus-bar contact, (8) an earth (9) contact, and a cam member pivotably mounted on the support to effect the closure or opening of the vacuum switch contacts, and also to cause the conducting member to slide from a central position (2) in one or other direction to engage either the bus-bar contact or the earth contact;

wherein the operative surfaces of the cam are effective to cause the conducting member (6) to engage the bus-bar contact or earth contact closure of the vacuum switch contacts, and;

the vacuum switch contacts to open before disengagement of the contacting member from the bus-bar or earth contact, on return of the member to the central position, (2) whereby the making or breaking of the current path between a second contact of the vacuum switch and either said bus-bar contact or said earth contact occurs within the vacuum switch and not at either the bus-bar or earth contacts.



Compl. specn. 9 pages.

Drgs. 3 sheets

Int. Cl. F 28 B 5/00.

166006

Title : SURFACE-CUM-SPRAY CONDENSERS FOR PLANTS.

Applicant : BHARAT HEAVY ELECTRICALS LIMITED OF 18-20, KASTURBA GANDHI MARG, NEW DELHI-110 001, INDIA, AN INDIAN ORGANISATION.

Inventor : SATYANARAYANA MURTY NORI.

Application for Patent No. 59/Del/86 filed on 21st Jan., 1986.

Complete Specification left on 9th January, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A surface cum spray condenser for power plants comprising :

an enclosure having a first region of plate/tube nest (7) capable of imparting surface condensation of exhaust steam of power plants followed by a second region having a plurality of nozzles/sprayers (19) capable of providing a spray of water in said second region capable of imparting direct contact condensation to the exhaust steam already partly condensed in said first region;

a third region (20), (21) being an air cooling zone (5) disposed above the hot well of the condenser and having a tube (7) nest for surface condensation of exhaust steam followed by a direct contact condensing zone having nozzle/sprayers (19);

the said third region having vent pipe (6) for venting the condensed exhaust steam to an ejector;

the said enclosure further having in association with said hot (8) well;

feed means for feeding majority of condensate to the boiler;

means for recirculation of the remaining part of condensate and comprising condensate recirculation (12) pump connected to a heat exchanger (13) having recirculation and exit valves;

the recirculation valve being connected to said nozzles/sprayers in said second region or in said second and third regions.

Provisional Specification 6 pages.

Drgs. 2 sheets

Compl. specn. 11 pages.

Ind. CLASS : 63 I.

166007

Int. Cl. H 02 K 7/00.

Title : "GENERATOR SET FOR USE ON A BUILDING SITE".

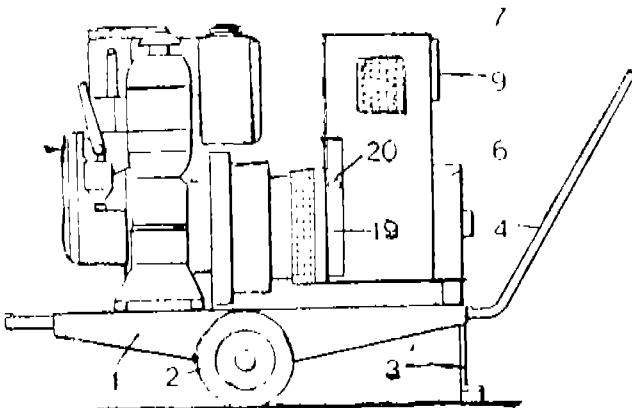
Applicant & Inventor : JACQUES RIVKINE, A SWISS CITIZEN OF 33, CHEMIN MOISE DUBOULE, 1209 GENEVA, SWITZERLAND.

Application for Patent No. 61/Del/1986 Filed on 21st January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch, New Delhi-110 005.

6 Claims

A generator set for use on a building site, comprising : a frame (1) carrying an electric generator (6) and an internal combustion engine (5) for driving the generator (6); the latter being intended to supply single-phase and/or three-phase alternating current at the voltage and frequency of the local mains supply; characterised in that said generator set (6) comprises an electrical converter (8) and a switch (14) for connecting the inlet of the converter (8) to an outlet of the generator (6); the outlet of the converter providing a current at a higher frequency than the frequency of the main supply.



Compl. specn. 6 pages.

Drg. 1 sheet

Ind. CLASS : 50 F.

166008

Int. Cl. : F 24 F 5/00, F 25 B 31/00.

Title : "DEVICE FOR CONTROLLING THE CAPACITY OF A VARIABLE CAPACITY COMPRESSOR".

Applicant : SANDEN CORPORATION, A JAPANESE COMPANY, OF 20 KOTOBUKI-CHO, ISESAKI-SHI, GUNMA 372, JAPAN.

Inventor(s) : MOTOHARU SATO.

Application for Patent No. 84/Del/86 Filed on 29 January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

2 Claims

A device for controlling the capacity of a variable compressor having an evaporator (6) and compressor capacity changing means (11) said comprising :

first temperature detecting means (8) disposed forward of an evaporator for detecting a first air temperature at an inlet side of said evaporator;

second temperature detecting means (9) disposed behind said evaporator for detecting second air temperature at an outlet side of said evaporator; and

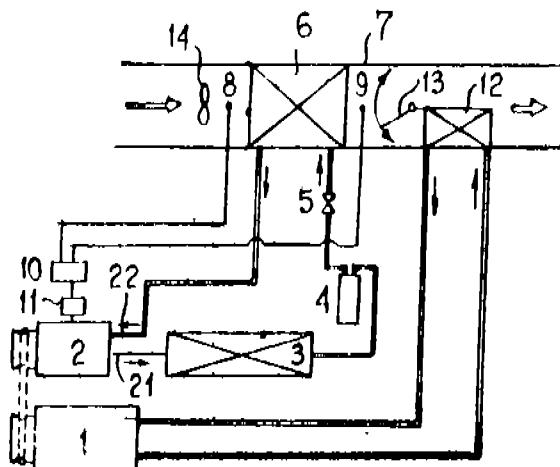
control means (10) connected to said first and second temperature detecting means also to said capacity changing means for comprising the detected temperature values with predetermined values and sending control signals to said capacity changing means, said control means having a first comparison means for comparing a first predetermined temperature with said first air temperature and providing a first control signal when said first air temperature is higher than said first predetermined temperature.

second comparison means for comparing the difference between said second air temperature and a second predetermined temperature with a predetermined change in temperature in response to said first control signal and providing a second control signal when said difference in temperature, wherein said capacity changing means changes the capacity of said compressor to a high capacity in response to said second control signal;

third comparison means for comparing said first air temperature to a third predetermined temperature in response to the comparison by said first comparison means and the absence of said first control signal, said third comparison means providing a third control signal, when said third predetermined temperature is higher than said first air temperature, wherein said capacity changing means changes the capacity of said compressor to a high capacity in response to said third control signal;

fourth comparison means for comparing said first air temperature to a fourth predetermined temperature in response to the comparison by said third comparison means and the absence of a third control signal, and said fourth comparison means providing a fourth control signal when said fourth predetermined temperature is higher than said first air temperature, wherein said capacity changing means changes the capacity of said compressor to low capacity in response to said fourth control signal and;

fifth comparison means for comparing said first air temperature with a fifth predetermined temperature in response to the comparison by said fourth comparison means and the presence of said fourth control signal, said fifth comparison means providing a fifth control signal when said first air temperature is greater than said fifth predetermined temperature, wherein said capacity changing means stops the operation of said compressor.



Compl. specn. 12 pages.

Drgs. 4 sheets

Ind. CLASS : 68 B.

166009

Int. Cl. : H 01 H 83/00.

Title : AUTOMATIC SECTIONALISER FOR A THREE PHASE ELECTRICAL SUPPLY.

Applicant : BRUSH SWITCHGEAR LIMITED, A BRITISH COMPANY, OF P. O. BOX 19, LOUGHBOROUGH, LEICESTERSHIRE, ENGLAND.

Inventor(s) : JOHN STANLEY STEWART.

Application for Patent No. 86/Del/86 Filed on 30th January, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-5.

8 Claims

An automatic sectionaliser for a three-phase electrical supply, comprising :

three phase-links (20) for connection in the respective phases of the three-phase supply;

each phase-link (20) being moveable between an operative position wherein current in said respective phase can pass therethrough and an inoperative position wherein current in said respective phase cannot so pass;

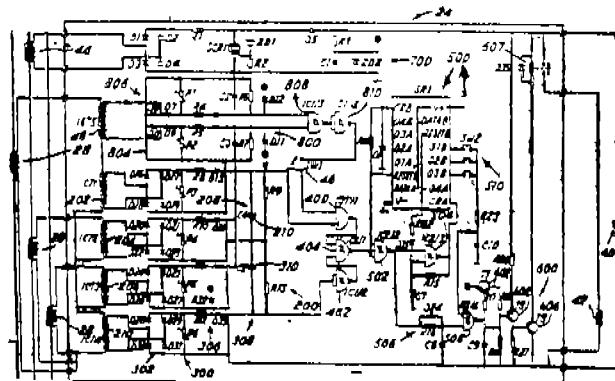
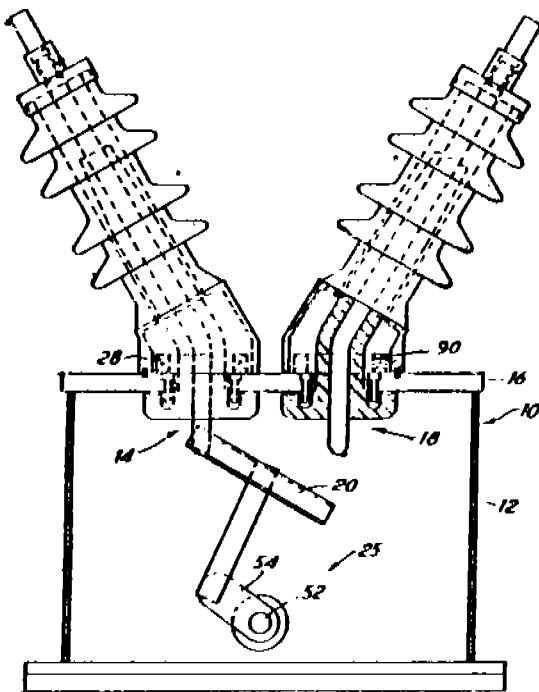
a respective current transformer (28) embodied in each of at least two of said three-phase-links (20), for detecting fault current pulses;

an electronic circuit (24) connected to said current transformers (28) for counting pulses of fault current in the respective phase of the three-phase supply and to provide an output signal in response to the counting of predetermined number of fault current pulses, latch-means (50, 52, 54) connected to all three of said phase-links for retaining said phase-links, commonly in said operative positions;

said latch means being releasable to allow said phase-links (20) commonly to move to said inoperative positions;

a latch-operating mechanism for releasing said latch means; and

a low VA trip coil (42) energisable by said output signal and connected to said circuit (24) for activating said latch-operating mechanism (26) release said latch means (52, 54).



Ind. CLASS : 176 I. XLV(4).

166010

Int. Cl. : F 22B 1/30.

Title : ELECTRIC BOILER IN COMBINATION WITH A CONTROLLER OF CONTROLLING STEAM GENERATION OF THE BOILER.

Applicant : VAPOR CORPORATION, A DELAWARE CORPORATION, OF 6420, W. HOWARD STREET, CHICAGO, ILLINOIS 60648, UNITED STATES OF AMERICA.

Inventor(s) : CURTIS J. DIEDRICK.

Application for Patent No. 133/Del/86 Filed on 19th February, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-5.

5 Claims

An electric boiler in combination with a controller for controlling steam generation of the boiler comprising :

a pressurized tank (24) for containing generated steam and circulated water in said boiler;

a water distribution header (28) centrally mounted in an upper portion of said tank (24),

said header (28) having a top, bottom, and side walls for holding water (25) at a predetermined level (26),

said header (28) being disposed above level of said circulated water in a lower portion of said tank;

a plurality of vertically spaced nozzles (30) on said header (28) for generating water jets (34) corresponding to said water level in the header (28);

a circulation pump (8) connected to said tank (20) for delivering water to said header (28) by means of a conduit (36) extending from below the level (26) of circulated water to said header (28);

said pump (8) maintaining said predetermined water level in said header;

at least one high voltage electrode (32) intermediate said header (28) and tank wall for intercepting said nozzle jet water (34) flow and generating steam in said tank (24);

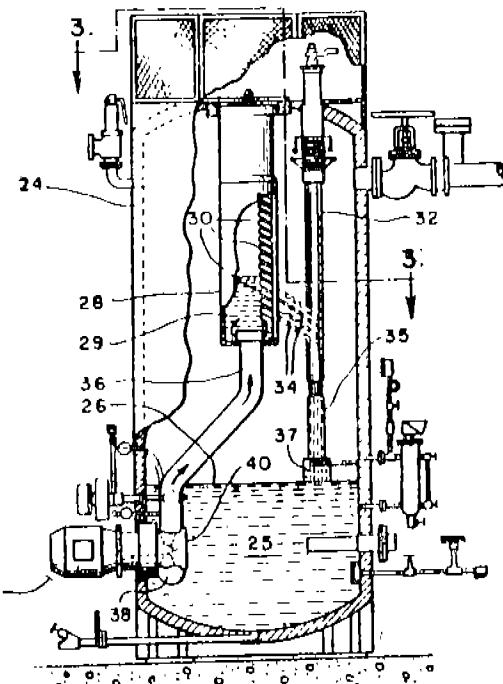
sensing means located in said tank (24) for sensing boiler operating parameters;

means (16) for generating a plurality of signals corresponding to said boiler operating parameters and connected to said sensing means;

means responsive (11) to said generating means (16) and connected thereto and said pump (8);

said responsive means (11) continually adjusting said pump (8) operating speed in response to said signals from said generating (16) means and thereby controlling

delivery of water through said nozzles (30) in accordance with said boiler operating parameters.



Compl. specn. 15 pages.

Drg. 1 sheet

Int. Cl. : H 04 L 11/00; 5/00.

166011

A DEVICE FOR THE DETERMINATION OF THE LAST INTERMEDIATE NODE OF A PATHWAY.

Applicant : JEUMONT-SCHNEIDER, OF 31-32, QUAI DE DION BOUTON - 92811 PUTEAUX, CEDEX, FRANCE, A FRENCH COMPANY.

Inventor : PASCAL DEVEZE.

Application No. 498/Mas/85 filed July 1, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A device for the determination of the last intermediate node of a pathway comprising a minimum number of nodes to proceed from the m-th node to the n-th node in a network comprising p nodes inter-connected by a number of links (p being a positive whole number), especially intended for routing across the network of both data communications between interconnected computers, and telephonic communications between interconnected switch-board systems, said device comprises :

- a detector (1) of direct links;
- a circuit (2) for establishment of the square matrix $R_1 = \begin{bmatrix} a_{ij} \end{bmatrix}_{P \times P}$ such that $a_{ij} = 0$ if there is no direct link from the i-th node to the j-th node, and $a_{ij} = 1$ if there is direct link from the i-th node to the j-th node, the output of the detector (1) being connected to the input of the circuit (2);
- a circuit (12) for establishment of the m-th row of the matrix $X_q = R_{q-1} \cdot R_1 = \begin{bmatrix} x_{ij} \end{bmatrix}_{P \times P}$ equal to the product of matrices R_{q-1} and R_1 , for q greater than or equal to 2;

a circuit (13) for establishment of the m-th row of the matrix $R^q = \parallel i \parallel P$ such that $b_{ij} = 1$ if x_{ij} or a_{ij} is other than zero, and $b_{ij} = 0$ if x_{ij} and a_{ij} are both zero, for q greater than or equal to 2, the output of the circuit (12) being connected to the first input of the circuit (13);

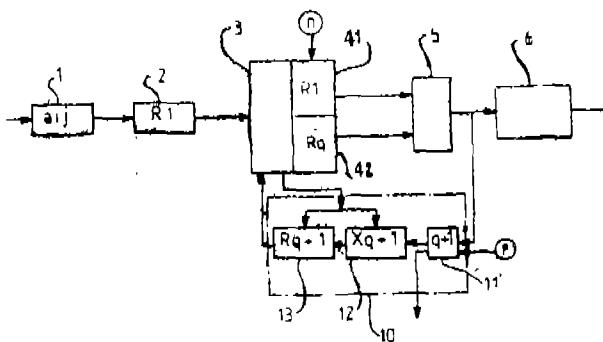
a memory (3) in which are stored the matrix R , and the m-th row of the matrix R^q , the output of the circuit (2) being connected to a first input of the memory (3), the output of the circuit (13) being connected to the second input of the memory (3), and the output of the memory (3) being connected to the second inputs of the circuit (12) and (13);

a reading mechanism (41, 42) for the said memory (3);

a circuit (5) enabling comparison of the elements of the same rank from the m-th row of the matrix R^q and the n-th column of the matrix R_1 , and determination of the rank of such elements which are nonzero, the two inputs of the circuit (5) being connected to the two outputs of the reading mechanism (41, 42);

a circuit (6) placing into memory the address corresponding to the rank of a nonzero element determined in the foregoing, the input of the circuit (6) being connected to the output of the circuit (5);

a mechanism (11) incrementing by one unit the value of q if there is no common nonzero element of the same rank between the said row and column, the input of the mechanism (11) being connected to the input of the circuit (5) and the output of the mechanism (11) being connected to the first input of the circuit (12).



Compl. specn. 24 pages.

Drg. 1 sheet

Int. Cl. 4 : H 02 H 5/00

166012

A DEVICE FOR PROTECTING A PUMP AND PRIME MOVER.

Applicant & Inventor : RAMAR CHETTIAR SENNAI-YAN CHETTIAR PONNUSWAMY CHETTIAR AYYATHURAI, SILLAMARATHUPATTI, MADURAI DISTRICT, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application No. 518/Mas/85 filed July 9, 1985.

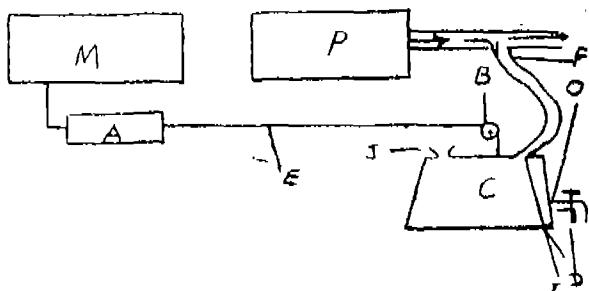
Complete Specification left : October 9, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A device for protecting a pump and prime mover comprising a container, the container having an inlet for receiving a portion of the flow of the liquid from the discharge end of the pump and an outlet for gravity flow of the liquid therefrom, the outlet being provided with a cock for regulating the outflow of the liquid wherein the container is provided with a float therein, the float being sus-

pended from an actuator connected to the prime mover controls, whereby as long as the pump is discharging liquid and a portion of the flow continuously passes through the container from its inlet to its outlet, the buoyancy of the float exerted on the actuator maintains the actuator in its deactivated state, but any cessation of discharge of liquid from the pump or reduction of such discharge to a predetermined rate, drains the liquid in the container to reduce the buoyancy of the float, thus activating the actuator and shutting off the prime mover.



(Prov. 9 Pages.

Com. 11 Pages;

Drg. 1 sheet)

Drawgs. Nil.

Int. Cl. 4 : B 01 J 8/10

166013

FEEDER FOR FEEDING DISCRETE OBJECTS.

Applicant : ETABLISSEMENT GERSAN, OF STAEDTLE 36, 9490 VADUZ, LIECHTENSTEIN, A LIECHTENSTEIN COMPANY.

Inventor : TIMOTHY HOWARD LEATON.

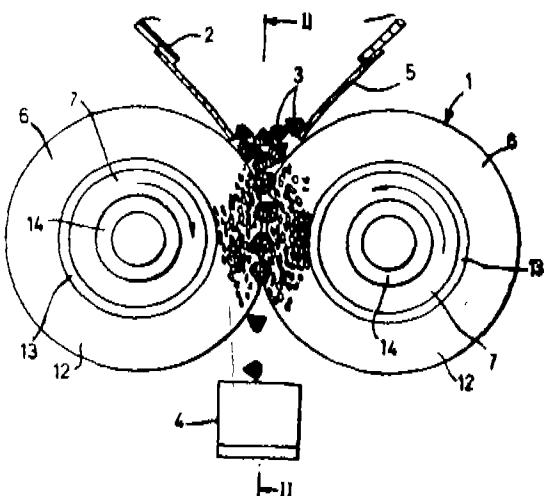
Application No. 579/Mas/85 filed July 25, 1985.

Convention date : August 9, 1984 (No. 8420258; Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

A feeder for feeding discrete objects from the bottom of a container, comprising a nip or gap formed by two rolls whose cooperating surfaces are arranged both to move in the same direction at the nip or gap, through which nip or gap the objects will pass, at least one of the rolls having a resilient surface such that the objects become at least partly embedded in the surface without opening a gap between the rolls through which objects can fall, and one of the rolls being arranged to move at a greater surface speed than the other roll, the ratio of surface speeds of the rolls being between 1:3 and 2.5:3.



(Com. : 13 pages;

Drawgs. : 2 sheets)

Int. Cl. 4 : F 16 D 3/00

166014

HIGHLY RESILIENT SHAFT COUPLING.

Applicant : Hackforth GmbH & Co. KG, of Heerstrasse 66, 4690 Herne 2 Federal Republic of Germany a company registered in Federal Republic of Germany.

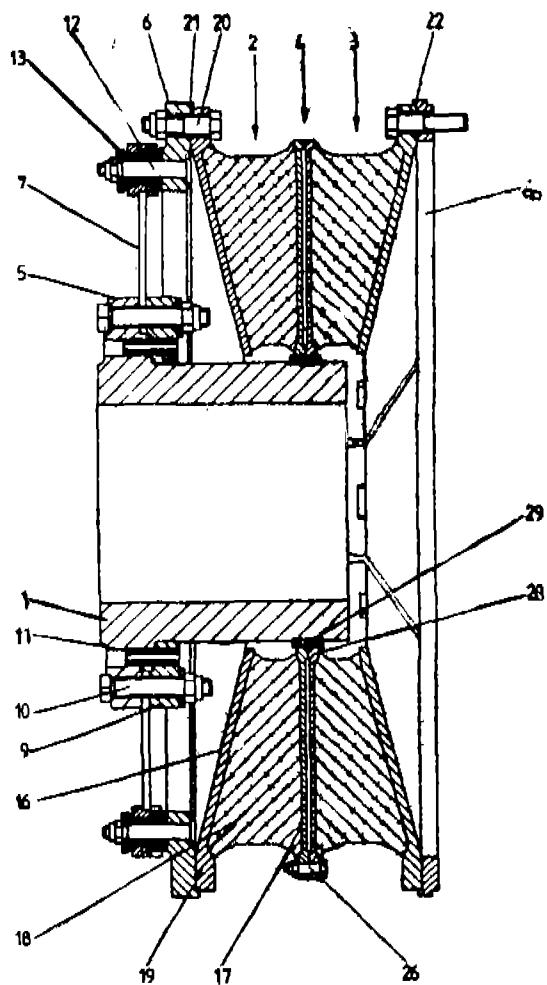
Inventor : JURGEN WALTER; ULRICH FALZ; MANFRED LUNKE.

Application No. 669 Mas/85 filed 28th August 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

A highly-resilient shaft coupling comprising a hub, a drive ring disposed thereon to rotate with the shaft and a resilient ring element assembled from segment member of an elastomeric substance such as rubber with metal segment plates secured preferably by vulcanization to the inside surfaces of the segment plates at axial ends, the said segment plates being releasably secured by way of a radially projecting peripheral edge to the drive ring and to a second rigid coupling part, characterised in that the resilient ring element (4) is formed from at least two axially contiguous identical ring parts (2, 3); the ring segments (14, 15) of the two ring parts (2, 3) are offset from one another by half a segment pitch; and the axially inner segment plates (17) are clamped together on their outside edge, by fasteners (26), and the inner segment plates bear radially and centrally on their inside edge on the hub, so that they are on the same sectional plane with respect to the axis of the hub.



(Comp. Specn. : 10 pages.

Drgs. 2 sheets)

Int. Cl. 4 : B 23 Q 3/00

166015

TOOL AND WORKPIECE HOLDING ARRANGEMENT FOR MATERIAL REMOVING MACHINING.

Applicant : GILDEMEISTER DeVLIEG SYSTEMWERKZEUGE GmbH, OF MORSESTRASSE 1, 4800 BIELEFELD 11, WEST GERMANY, A GERMAN COMPANY.

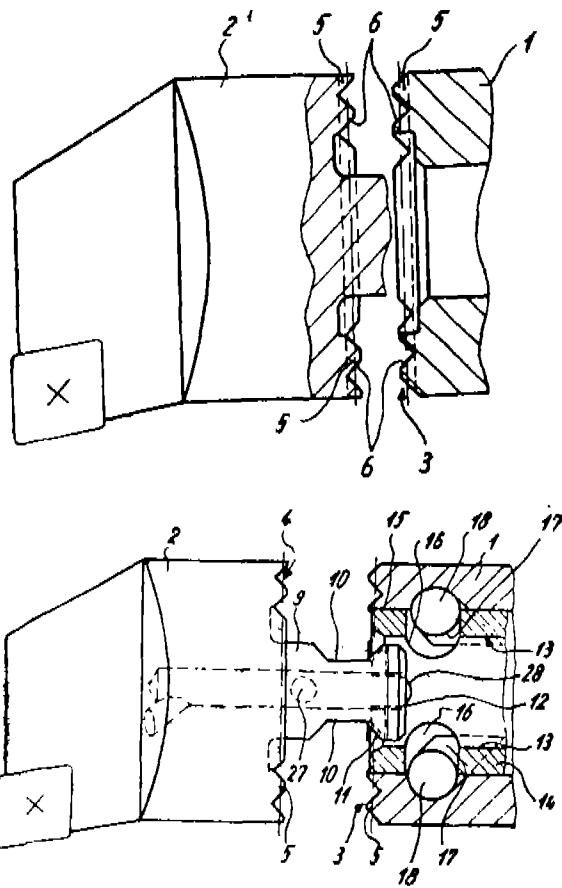
Inventor : HORST SCHURFELD.

Application No. 686/Mas/85 filed September 2, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

16 Claims

A tool and workpiece holding arrangement for material removing machining comprising in combination a primary holder having a first engagement surface; a replaceable secondary holder having a second engagement surface which faces said first engagement surface in an assembled position of said secondary holder with said primary holder; and cooperating force-transmitting means on said first and second engagement surfaces for transmitting forces between said primary and secondary holders having profiled portions provided in a spatially crossing fashion on said first and second engagement surfaces, respectively, around an unprofiled central region thereof at mutually angularly displaced sides of said unprofiled central region, said profiled portions having respective flanks which are juxtaposed with one another in said assembled position, and clamping means for clamping said primary and secondary holders to one another in said assembled position and one of said holders is provided with at least one tension rod rigid therewith and extending from the respective engagement surface and beyond said profiled sections.



Int. Cl.⁴ : F 16 L 21/00

166016

A PIPE JOINT.

Applicant : KUBOTA LTD., A COMPANY INCORPORATED UNDER THE LAWS OF JAPAN, OF 2-47, SHIKITSUHIGASHI 1-CHOME, NANIWA-KU, OSAKA, JAPAN.

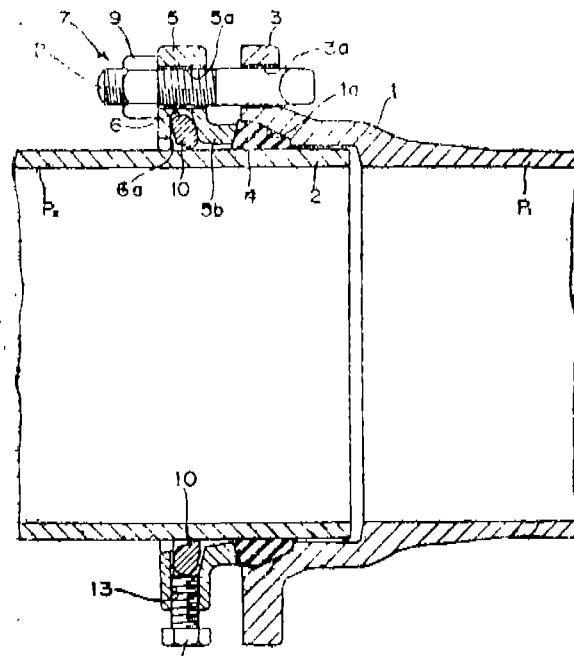
Inventor : TAKAO HASHIMOTO.

Application No. 694/Mas/85 filed September 5, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

16 Claims

A pipe joint comprising : a socket : a spigot sealingly inserted into said socket with an annular packing interposed there between; receptacle groove means formed in a circular arrangement in the inner periphery of said socket or in the inner periphery of annular retainer means surrounding said spigot and engaging said socket; said groove means being positioned, when viewed axially of said socket, outwardly from said packing and provided with lateral stopper face means axially away from said packing; engaging means arranged in a circular arrangement within said groove means and having radially outer head means and radially inner tip means, said engaging means being initially inclined so that said tip means is closer to said packing than said head means; and pressing means for radially inwardly pressing said engaging means at said head means so that said tip means engages in the outer periphery of said spigot; whereby said engaging means elastically deforms in a manner of a Belleville spring in response to separating movement of said spigot so that said tip means pivots about said head means toward said stopper face means to further engage in the spigot outer periphery.



(Com. : 19 pages;

Drwgs. : 16 sheets)

Int. Cl.⁴ : B 32 B 27/06; 27/18; 27/20

166017

AN ORGANIC PLUS INORGANIC FIBER COMPOSITE AND A METHOD OF MAKING IT.

Applicant : ELTECH SYSTEMS CORPORATION, A CORPORATION OF THE STATE OF DELAWARE, U.S.A. OF TOWN EXECUTIVE CENTER, 6100 GLADES ROAD, SUITE 305, BOCA RATON, FLORIDA 33434, U.S.A.

Inventors : (1) LOUIS WILLIAM HRUSKA (2) CARL WAYNE BROWN (3) CHRISTOPHER EUGENE GRAHAM.

Application No. 698/Mas/85 filed September 6, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

21 Claims No drawing

An organic plus inorganic fiber composite comprising an organic polymer in fiber form having finely-divided inorganic refractory particulates bound firmly with said polymer so as to be resistant to physical separation without physical destruction of fiber, said fibers being non-isotropic fibers having a non-uniform morphology and having particles of inorganic particulates of less than 150 microns embedded into the surface of said polymer fibers.

(Com. : 50 pages)

Int. Cl.⁴ : B 61 G 1/00

166018

AN IMPROVED STRIKER ASSEMBLY APPARATUS FOR RAILWAY CARS.

Applicant : MSTED Industries Incorporated, of 370 Prudential Plaza, Chicago, Illinois 60601, U.S.A. A corporation of Delaware, U.S.A.

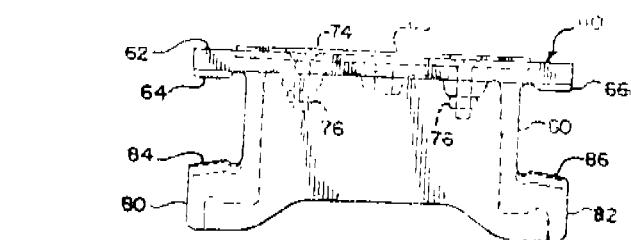
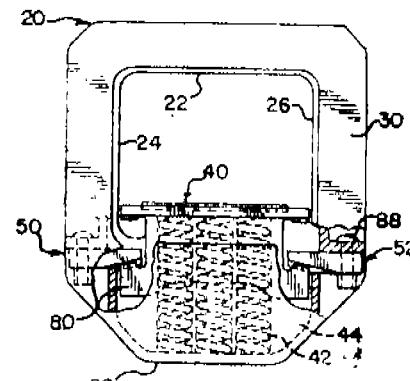
Inventor : JOHN WALTER KAIM.

Application No. 699/MAS/85 filed 6th September 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

9 Claims

An improved striker assembly apparatus for railway cars wherein a moveable coupler is vertically supported upon a carrier movable in a vertical direction, and supported upon springs, said improvement comprising two indented chevron shaped bearing means each formed by two joined planar surfaces of lugs on opposite ends of the carrier and at least one retainer plate positioned in said striker opposed to said bearing means having extended chevron shaped bearing means formed by two joined planar surfaces congruent with said shaped bearing means on said carrier so as to provide lateral and longitudinal stability for said carrier.



Int. Cl. : B 21 B 13/12; 37/02

166019

A METHOD AND A SYSTEM FOR CONTINUOUSLY ROLLING A BLOOM OR BILLET.

Applicant : SUMITOMO METAL INDUSTRIES, LTD., A JAPANESE BODY CORPORATE, OF 15-KITAHAMA, 5-CHOME, HIGASHI-KU, OSAKA-SHI, OSAKA, JAPAN.

Inventors : (1) YOSHIAKI KUSABA (2) CHIHIRO HAYASHI.

Application No. 701/Mas/85 filed September 6, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

A method for continuously rolling a bloom or billet having a substantially square cross-section into a product having a substantially square cross-section, in a continuous rolling mill comprising $(2n+1)$ stands (n being an integer equal to or larger than unity), comprising the steps of : arranging horizontal rolling mills and vertical rolling mills alternately; disposing a horizontal rolling mill having a pair of driven horizontal work rolls at each of odd-numbered stands inclusive of the first and the last stands; disposing a vertical rolling mill having a pair of undriven vertical work rolls at each of even-numbered stands inclusive of the second stand; determining the thickness d_i of the rolled material between adjacent stands and the interaxial distance L_i between the work rolls to satisfy the conditions defined by the following formulae :

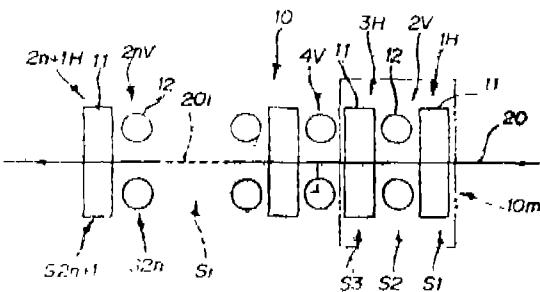
(2) mono lines

$$0.1 < d_i / O_i < 0.4$$

$$L_i / D_i < 4.0$$

where, $i = 1, 2, 3, \dots, n$

D_i : outer diameter of a work roll; passing the rolled material through said continuous rolling mill for rolling; and setting the reduction of area in said undriven vertical mill to be at least 83% of that in said driven horizontal rolling mill.



(Com. : 23 pages;

Drawgs. : 4 sheets)

Int. Cl. : F 16 K 1/12

166020

A GLOBE VALVE HAVING A DISMOUNTABLE SEAT FOR RAPID MAINTENANCE.

Applicant : SEREG OF 12, PLACE DES ETATS-UNIS, 92120 MONTROUGE, FRANCE, A FRENCH COMPANY.

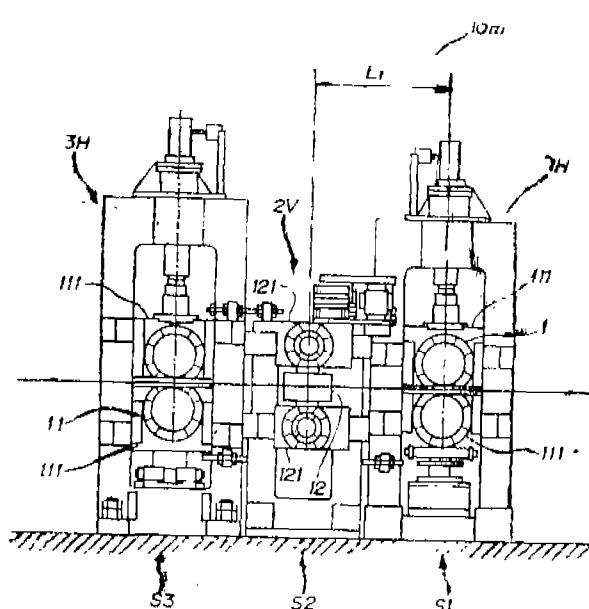
Inventor : JEAN LEPHILIBERT.

Application No. 703/Mas/85 filed September 9, 1985.

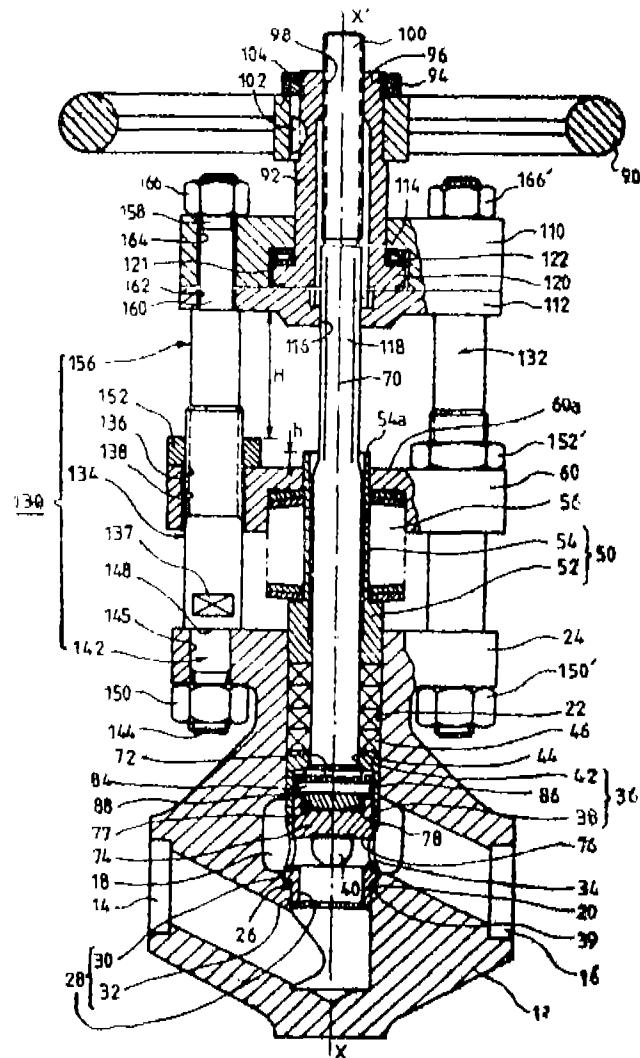
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A globe valve comprising a control rod which is movable in translation along a valve axis, handle means for controlling movements of said rod in translation, a disk fixed to one end of said rod; a body having an inlet passage and an outlet passage therethrough for passing a liquid, said passages giving access to a cavity which is extended via a cylindrical orifice disposed along said valve axis in order to receive said rod; a cage lodged inside said cavity and within which said disk is capable of being moved by axial displacement of said rod; packing surrounding a portion of said rod and disposed within said cylindrical orifice; a seat which is removable from said body for co-operating with said disk in a closure position, said seat having a first face defining a sealing bearing surface for cooperating with said disk and a first annular thrust bearing surface, and a second face defining a second annular thrust bearing surface; said valve being characterized in that it further comprises means for defining a third annular thrust bearing surface symmetrically about said valve axis disposed in said cavity between the openings to said passages and at least substantially fixed relative to said body; means for providing sealing between said second and third annular thrust bearing surfaces; and compression means, said compression means acting on a stack having the same axis as the said valve body and comprising said packing, said cage, said seat, and said sealing means, whereby said packing and said sealing means are subjected to said compression in order to provide sealing respectively between said rod and the wall of said cylindrical



artic through the body, and between said seat and said body.



(Com. : 20 pages;

Drawings : 5 sheets)

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 161160. M/s. Pearl Appliances Pvt. Ltd., A-84, G. T. Karnal Road, Delhi-110033, India, an Indian Company, registered under the Indian Companies Act, 1956. "Washing Machine". 7th July, 1989.

Class 1. No. 161161. M/s. Pearl Appliances Pvt. Ltd., A-84, G. T. Karnal Road, Delhi-110033, India, an Indian Company, registered under the Indian Companies Act, 1956. "Spin Dryer". 7th July, 1989.

Class 1. No. 161480. Sagar Electricals, 7-Gobind Nagar, Ambala Cantt. Haryana-133001 India. "Voltage Stabilizer". 3rd October, 1989.

Class 1. No. 161518. Tarun Sanon, D-867-New Friends Colony, New Delhi-110065, India. An Indian National. "Thermal Binder". 12th October 1980

- Class 1. No. 161533. Union Carbide India Limited, of 1, Middleton Street, Calcutta-700071, West Bengal, India. "Flash Light". 16th October, 1989.

Class 3. No. 161132. M/s. Parasales (India) Regd., B-24/2 Wazirpur Industrial Area Delhi-52 (India) and Indian Partnership firm. "Pencil Box". 3rd July, 1989.

Class 3. Nos. 161133 & 161134. Telemecanique, a French Corporation of 43-45, Boulevard Franklin Roosevelt, 92500 Rueil Malmaison, France. "Additional Control/Test Unit for a Contactor". 3rd July, 1989.

Class 3. No. 161135. Telemecanique, a French Corporation of 43-45, Boulevard Franklin Roosevelt, 92500 Rueil Malmaison, France. "Auxiliary Contact Block to be Mounted on the Side of a Contactor". 3rd July, 1989.

Class 3. No. 161136. Telemecanique, a French Corporation of 43-45, Boulevard Franklin Roosevelt, 92500 Rueil Malmaison, France. "Auxiliary Contact Block to be Monted on the front of a contactor". 3rd July, 1989.

Class 3. No. 161137. Telemecanique, a French Corporation of 43-45, Boulevard Franklin Roosevelt, 92500 Rueil Malmaison, France. "a Contactor". 3rd July, 1989.

Class 3. No. 161195. Polycraft, an Indian Partnership firm carrying on business at 15-Unique House, 25, S.A. Brevi Road, Bombay-400 001. Maharashtra State, India. "Seat". 19th July, 1989.

Class 3. No. 161198. Anter Preet Kaur D/o S. Sarab Jit Singh, Sole Proprietor of M/s. Vanity Fair Cosmetics, 579, Model Town, Jalandhar (Punjab-India) of Indian Nationality. "Container". 9th July, 1989.

Class 3. No. 161213. V. V. Dhanushkodi Nadar & Sons, 90/91, South Raja Street, Tuticorin 628 001, Tamil Nadu, India, a Partnership firm duly registered under the Indian Partnership Act. 1932. "Container". 21st July, 1989.

Class 3. No. 161357. Jaiprakash Jumani, Indian National, the Proprietor of G.A.G. Trading Co., 320, Avenue Road, Bangalore 560 002, Karnataka, India. "Egg Laying Tray for Sericulture Application". 4th September, 1989.

Class 3. No. 161453. M/s. V. K. S. Electronic, B-56-57 Wazirpur Group Industrial Area, Delhi 110 052 India (A registered Partnership firm). "Cup Heater". 21st September, 1989.

Class 3. No. 161471. Ellenberger & Poensgen Gmbh. of Industriestrasse 2-8, D-8503 Altdorf, Germany, a German Company. "a Electric Switch". 26th September, 1989.

Class 3. No. 161532. Union Carbide India Limited, of 1, Middleton Street, Calcutta-700071, West Bengal, India. "Flash Light". 16th October, 1989.

Class 10. No. 161426. M/s. Mangal Rubber Products Pvt. Ltd., a company incorporated under the Companies Act, having its office at I.C.T. Swastick Compound, Ram Baug, Chincholi Bunder Road, Off S. V. Road, Malad (West) Bombay-400 064, in the State of Maharashtra within the Union of India. "Footwear". 3rd September, 1989.

R. A. ACHARYA

**Controller General of Patents, Designs
and Trade Marks**

